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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: SAKAI=17

In re Application of:	)	Conf. No.: 5726
SAKAI et al.	)	Art Unit:
Appln. No.: 10/518,057	)	Examiner:
Filed: December 16, 2004	)	Washington, D.C.
For: ENZYME FOR DECOMPOSTION SULFATED FUCAN DERIVED...	)	October 27, 2005

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Randolph Building, Mail Stop Amendments
401 Dulany Street
Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed before the mailing date of a first office action on the merits or before the mailing of a first Office action after the filing of a Request for Continued Examination under 37 CFR §1.114.

[X] 2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form BN/SB/08A/B) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. Other than U.S. patent(s) and/or

published U.S. application(s), which 37 CFR §1.98(a)(2)(ii) does not require to be filed unless specifically required by the Office, a copy of each document listed is attached.

[X] 3. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 4. Other information being provided for the examiner's consideration follows:

Attached is a copy of the Supplementary Partial European Search Report.

5. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Attorneys for Applicant(s)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	10/518,057
Filing Date	December 16, 2004
First Named Inventor	Takeshi SAKAI et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	SAKAI17

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AO	US-2001/0046696 A1		SAKAI et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Number Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

Complete if Known	
Application Number	10/518,057
Filing Date	December 16, 2004
First Named Inventor	Takeshi SAKAI et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	SAKAI17

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	AP	BERTEAU et al., Characterization of a new α-L fucosidase isolated from the marine moolusk *Pecten maximus* that catalyzes the hydrolysis of α-L-fucose from algal fucoidan (*Ascophyllum nodosum*), *Glycobiology*, 12(4)273-282 (2002)	
	AQ	TANAKA et al., Hydrolysis of fucoidan by abalone liver α-L-fucosidase, *FEBS Letters*, 9(1):45-48 (1970)	
	AR	DANIEL et al., Degradation of algal (*Ascophyllum nodosum*) fucoidan by an enzymatic activity contained in digestive glands of the marine molluse *Pecten maximus*, *Carbohydrate Research*, 322:291-297 (1999)	
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	AT	VIEIRA et al., Occurrence of a unique fucose-branched chondroitin sulfate in the body wall of a sea cucumber, *The Journal of Biological Chemistry*, 263(34)18176-18183 (1988)	
	AU	RIBCIRO et al., A sulfated α-L-fucan from sea cucumber, *Carbohydrate Research*, 255:225-240 (1994)	
	AV	MOURÃO et al., Highly acidic glycans from sea cucumbers, *Eur. J. Biochem*, 166:639-645 (1987)	
	AW	BERTEAU et al., Sulfated fucans, fresh perspectives: structures, functions, and biological properties of sulfated fucans and an overview of enzymes active toward this class of polysaccharide, *Glycobiology*, 13(6)29R-40R (2003)	
	AX	MOURÃO et al., Searching for alternative to heparin sulfacted fucans from marine invertebrates, *TCM*, 9(8)225-232 (1999)	

Examiner Signature		Date Considered	

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